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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/788,976	02/27/2004	David McKay	WEAT/0372	6867
7590 02/16/2005			EXAMINER	
WILLIAM B. PATTERSON			TSAY, FRANK	
MOSER, PATTERSON & SHERIDAN, L.L.P. Suite 1500 3040 Post Oak Blvd. Houston, TX 77056			ART UNIT	PAPER NUMBER
			3672	*
			DATE MAILED: 02/16/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

1						
0/	Application No.	Applicant(s)				
	10/788,976	MCKAY ET AL.				
\ Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this commission of	Frank S Tsay	3672				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply signed above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	his action is non-final. wance except for formal matters,	•				
Disposition of Claims						
4) ☐ Claim(s) 1-45 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) 20-27 is/are allowed. 6) ☐ Claim(s) 1-6,8,10,14,17 and 38-45 is/are rej 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	lrawn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Exami 10) ☑ The drawing(s) filed on 27 February 2004 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the corr 11) ☐ The oath or declaration is objected to by the	fare: a)⊠ accepted or b)□ obje he drawing(s) be held in abeyance. rection is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a line	ents have been received. ents have been received in Appli riority documents have been rec eau (PCT Rule 17.2(a)).	cation No eived in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 7/12, 10/13, 1/21. 	4)					

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Art Unit: 3672

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 8 and 44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The language "the sleeve" in claim 8 and the language "the drillable portion" in claim 44 all lack proper antecedent basis.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 10, 14 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Tibbitts '440.

The first body portion is anticipated by col. 5, line 30-41, where the drill bit is attached to a conventional drilling apparatus such as drill string or drill collar, the second body portion is met by bit body 10 which is partially receivable within the drill string or drill collar when so connected. The profiles formed on the outer surface of the second body portion are met by T-shape channel 120 (Fig. 9, for example), which is adapted to

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engaged with the cutting member 126 for maintaining the cutting during drilling. The at least two intersection faces in the profile are met by the combination of the vertical and horizontal surfaces in the T shaped channel. The first end and second ends of the cutting member are clearly sown in the same figure, which are attached to the bit body and removable from the bit body from one end away from stop pin 130.

Claims 38-45 are rejected under 35 U.S.C. 102(b) as being anticipated by Rector, Jr. '482.

The downhole valve is anticipated by the valve assembly shown specifically in Figs 4 and 5, which comprises a first body portion 22 having a bore 28 disposed therethrough. An obstruction member is met by ball 40 and the retainer is anticipated by the valve body 22, which retains the balls 40, 50. The two seating surfaces for balls are clearly anticipated by Fig. 5. The claimed aluminum drillable portion fails to render patentable distinction since in claim 38 no such portion is defined.

Claims 38-45 are rejected under 35 U.S.C. 102(b) as being anticipated by Bailey et al '819.

The obstruction member is met by plug 24 in conjunction with the piston 22 having valve 56 therein (see Figs 2 and 3). The retainer is met by bolts 50, which retains the obstruction member and cooperated the obstruction member to provide select fluid communication through the bore (Fig. 2, col. 4, lines 6-41). The first and second seating seat is met by shoulders 16 and 52, and the drillable aluminum portion is considered lacking structural distinction over claim 38.

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Allowable Subject Matter

Claims 7, 9, 11-13, 15, 16, 18, 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 8 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claims 20-37 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. O'Leary, Bardwell, Jones, Pitifer, Wilson and Strong et al, all teach drilling apparatus having profiles means.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank S Tsay whose telephone number is (703) 308-2170. The examiner can normally be reached on Monday thru Friday, 7:30am-5:00 pm, 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J Bagnell can be reached on (703)308-2151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Frank S Tsay Primary Examiner Art Unit 3672

2/14/05